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1 A Location Model for Communicating and Processing of Context

Michael Beigl, Tobias Zimmer, Christian Decker

 January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6

Publisher: Springer-Verlag

 Full text available: [pdf\(312.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Location is one of the most important elements of context in ubiquitous computing. In this paper we describe a *location model*, a *spatial-aware communication model* and an *implementation* of the models that exploit location for processing and communicating context. The location model presented describes a location tree, which contains human-readable semantic and geometric information about an organisation and a structure to describe the current location of an object or a context ...

Keywords: Digital artefacts, Experiences, Guidelines, Location model, RAUM, Spatial-aware communication

2 Using GPS to learn significant locations and predict movement across multiple users

Daniel Ashbrook, Thad Starner

 October 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 5

Publisher: Springer-Verlag

 Full text available: [pdf\(747.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Wearable computers have the potential to act as intelligent agents in everyday life and to assist the user in a variety of tasks, using context to determine how to act. Location is the most common form of context used by these agents to determine the user's task. However, another potential use of location context is the creation of a predictive model of the user's future movements. We present a system that automatically clusters GPS data taken over an extended period of time into meaningful loca ...

Keywords: Context, GPS, Location aware computing, Schedule prediction

3 How to prove where you are: tracking the location of customer equipment

Eran Gabber, Avishai Wool

 November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**

Publisher: ACM Press

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 VigilNet: An integrated sensor network system for energy-efficient surveillance 

 Tian He, Sudha Krishnamurthy, Liqian Luo, Ting Yan, Lin Gu, Radu Stoleru, Gang Zhou, Qing Cao, Pascal Vicaire, John A. Stankovic, Tarek F. Abdelzaher, Jonathan Hui, Bruce Krogh
February 2006 **ACM Transactions on Sensor Networks (TOSN)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article describes one of the major efforts in the sensor network community to build an integrated sensor network system for surveillance missions. The focus of this effort is to acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high element of risk for human personnel and require a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is of great pract ...

Keywords: Sensor networks, energy conservation, tracking, wireless

5 Location-aware mechanisms: Topological hole detection in wireless sensor networks 

 and its applications

Stefan Funke

September 2005 **Proceedings of the 2005 joint workshop on Foundations of mobile computing DIALM-POMC '05**

Publisher: ACM Press

Full text available:  pdf(5.90 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The identification of holes in a wireless sensor network is of primary interest since the breakdown of sensor nodes in a larger area often indicates one of the special events to be monitored by the network in the first place (e.g. outbreak of a fire, destruction by an earthquakes etc.). This task of identifying holes is especially challenging since typical wireless sensor networks consist of lightweight, low-capability nodes that are unaware of their geographic location. But there is also a secon ...

Keywords: embedding, graph theory, routing, topology, virtual coordinates

6 Exploiting space and location as a design framework for interactive mobile systems 

 Alan Dix, Tom Rodden, Nigel Davies, Jonathan Trevor, Adrian Friday, Kevin Palfreyman
September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(282.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article considers the importance of context in mobile systems. It considers a range of context-related issues and focus on location as a key issue for mobile systems. A design framework is described consisting of taxonomies of location, mobility, population, and device awareness. The design framework informs the construction of a semantic model of space for mobile systems. The semantic model is reflected in a computational model built on a distributed platform that allows contextual info ...

Keywords: awareness, context information, design framework, location-sensitive

applications, mobile systems, platform support, shared interaction, virtual space

7 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

8 Design frameworks: Lightweight detection and classification for wireless sensor



networks in realistic environments

Lin Gu, Dong Jia, Pascal Vicaire, Ting Yan, Liqian Luo, Ajay Tirumala, Qing Cao, Tian He, John A. Stankovic, Tarek Abdelzaher, Bruce H. Krogh

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A wide variety of sensors have been incorporated into a spectrum of wireless sensor network (WSN) platforms, providing flexible sensing capability over a large number of low-power and inexpensive nodes. Traditional signal processing algorithms, however, often prove too complex for energy-and-cost-effective WSN nodes. This study explores how to design efficient sensing and classification algorithms that achieve reliable sensing performance on energy-and-cost effective hardware without special pow ...

Keywords: classification, vigilNet, wireless sensor networks

9 Radio-layer security: Detecting identity-based attacks in wireless networks using signalprints



Daniel B. Faria, David R. Cheriton

September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**

Publisher: ACM Press

Full text available: [pdf\(327.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless networks are vulnerable to many identity-based attacks in which a malicious device uses forged MAC addresses to masquerade as a specific client or to create multiple illegitimate identities. For example, several link-layer services in IEEE 802.11 networks have been shown to be vulnerable to such attacks even when 802.11i/1X and other security mechanisms are deployed. In this paper we show that a transmitting device can be robustly identified by its *signalprint*, a tuple of signal ...

Keywords: IEEE 802.11., denial-of-service attacks, location-based services, security, wireless LANs

10 LIME: A coordination model and middleware supporting mobility of hosts and agents

Amy L. Murphy, Gian Pietro Picco, Gruia-Catalin Roman

July 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 15 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

LIME (Linda in a mobile environment) is a model and middleware supporting the development of applications that exhibit the physical mobility of hosts, logical mobility of agents, or both. LIME adopts a coordination perspective inspired by work on the Linda model. The context for computation, represented in Linda by a globally accessible persistent tuple space, is refined in LIME to transient sharing of the identically named tuple spaces carried by individual mobile units. Tuple spaces are also e ...

Keywords: Mobile computing, middleware, tuple spaces

11 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

12 Intrusion detection techniques for mobile wireless networks

Yongguang Zhang, Wenke Lee, Yi-An Huang

September 2003 **Wireless Networks**, Volume 9 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(164.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid proliferation of wireless networks and mobile computing applications has changed the landscape of network security. The traditional way of protecting networks with firewalls and encryption software is no longer sufficient and effective. We need to search for new architecture and mechanisms to protect the wireless networks and mobile computing application. In this paper, we examine the vulnerabilities of wireless networks and argue that we must include intrusion detection in the securit ...

Keywords: anomaly detection, cooperative detection, intrusion detection, intrusion response, mobile ad-hoc networks

13 Mobility prediction and routing in ad hoc wireless networks

William Su, Sung-Ju Lee, Mario Gerla

January 2001 **International Journal of Network Management**, Volume 11 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(405.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

By exploiting non-random behaviors for the mobility patterns that mobile users exhibit, we can predict the future state of network topology and perform route reconstruction proactively in a timely manner. Moreover, by using the predicted information on the network topology, we can eliminate transmissions of control packets otherwise needed to

reconstruct the route and thus reduce overhead. In this paper, we propose various schemes to improve routing protocol performances by using mobility p ...

14 Integrated coverage and connectivity configuration for energy conservation in sensor networks 

 Guoliang Xing, Xiaorui Wang, Yuanfang Zhang, Chenyang Lu, Robert Pless, Christopher Gill
August 2005 **ACM Transactions on Sensor Networks (TOSN)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An effective approach for energy conservation in wireless sensor networks is scheduling sleep intervals for extraneous nodes while the remaining nodes stay active to provide continuous service. For the sensor network to operate successfully, the active nodes must maintain both sensing coverage and network connectivity. Furthermore, the network must be able to configure itself to any feasible degree of coverage and connectivity in order to support different applications and environments with dive ...

Keywords: Sensor network, connectivity, coverage, energy conservation, network geometry, topology maintenance, wireless ad hoc network

15 Models and solutions for radio irregularity in wireless sensor networks 

 Gang Zhou, Tian He, Sudha Krishnamurthy, John A. Stankovic
May 2006 **ACM Transactions on Sensor Networks (TOSN)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.60 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we investigate the impact of radio irregularity on wireless sensor networks. Radio irregularity is a common phenomenon that arises from multiple factors, such as variance in RF sending power and different path losses, depending on the direction of propagation. From our experiments, we discover that the variance in received signal strength is largely random; however, it exhibits a continuous change with incremental changes in direction. With empirical data obtained from the MICA2 ...

Keywords: Sensor networks, link asymmetry, localization, packet loss, path loss, radio irregularity, sending power, topology control, wireless communication

16 Statistical location detection with sensor networks 

Saikat Ray, Wei Lai, Ioannis Ch. Paschalidis
June 2006 **IEEE/ACM Transactions on Networking (TON)**, Volume 14 Issue SI

Publisher: IEEE Press

Full text available:  pdf(502.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper develops a systematic framework for designing a stochastic location detection system with associated performance guarantees using a wireless sensor network. To detect the location of a mobile sensor, the system relies on RF-characteristics of the signal transmitted by the mobile sensor, as it is received by stationary sensors (clusterheads). Location detection is posed as a hypothesis testing problem over a discretized space. Large deviations results enable the characterization of the ...

Keywords: hypothesis testing, information theory, mathematical programming/optimization, sensor networks, stochastic processes

17 Location-aided routing (LAR) in mobile ad hoc networks

Young-Bae Ko, Nitin H. Vaidya

July 2000 **Wireless Networks**, Volume 6 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(242.42 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Special issue on knowledge representation

 Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available:  [pdf\(13.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

19 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(276.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

20 TTDD: two-tier data dissemination in large-scale wireless sensor networks

Haiyun Luo, Fan Ye, Jerry Cheng, Songwu Lu, Lixia Zhang

January 2005 **Wireless Networks**, Volume 11 Issue 1-2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(501.13 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Sink mobility brings new challenges to data dissemination in large sensor networks. It suggests that information about each mobile sink's location be continuously propagated throughout the sensor field in order to keep all sensors informed of the direction of forwarding future data reports. Unfortunately, frequent location updates from multiple sinks can lead to both excessive drain of sensors' limited battery supply and increased collisions in wireless transmissions. In this paper, we describe ...

Keywords: data dissemination, mobile sink, model, sensor network, two-tier

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IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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IEEE JNL IEEE Journal or Magazine

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IEEE CNF IEEE Conference Proceeding

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1. **A framework to access networked appliances in wide area networks**
Rahman, M.; Braun, D.; Bushmitch, D.;
[Consumer Communications and Networking Conference, 2005. CCNC. 2005](#)
3-6 Jan. 2005 Page(s):261 - 266
Digital Object Identifier 10.1109/CCNC.2005.1405180
[AbstractPlus](#) | Full Text: [PDF\(686 KB\)](#) [IEEE CNF](#)
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2. **Power quality monitoring of a distribution system**
Barker, P.P.; Burke, J.J.; Mancao, R.T.; Short, T.A.; Warren, C.A.; Burns, C.W
[Power Delivery, IEEE Transactions on](#)
Volume 9, Issue 2, April 1994 Page(s):1136 - 1142
Digital Object Identifier 10.1109/61.296300
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Guangzhao Cui; Lingzhi Cao; Xuncai Zhang; Yulin Liu;
Intelligent Control and Automation, 2006. WCICA 2006. The Sixth World Congress on
Volume 1, 21-23 June 2006 Page(s):4340 - 4343
Digital Object Identifier 10.1109/WCICA.2006.1713195
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Yu Kaneko; Harumoto, K.; Fukumura, S.; Shimojo, S.; Nishio, S.;
Applications and the Internet Workshops, 2005. Saint Workshops 2005. The 21st International Conference on
31-04 Jan. 2005 Page(s):208 - 211
Digital Object Identifier 10.1109/SAINTW.2005.1620013
[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) [IEEE CNF](#)
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- 3. **Research and implementation of the context-aware middleware for context-aware appliances**
Jonghwa Choi; Dongkyoo Shin; Dongil Shin;
Consumer Electronics, 2005. ICCE. 2005 Digest of Technical Papers. International Conference on
8-12 Jan. 2005 Page(s):161 - 162
Digital Object Identifier 10.1109/ICCE.2005.1429767
[AbstractPlus](#) | Full Text: [PDF\(1701 KB\)](#) [IEEE CNF](#)
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- 4. **Context-aware based mobile service for ubiquitous home**
Hyunjeong Lee; Jongwon Kim; Jaedoo Huh;
Advanced Communication Technology, 2006. ICACT 2006. The 8th International Conference on
Volume 3, 20-22 Feb. 2006 Page(s):4 pp.
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Cavdar, I.H.;
Power Engineering Society General Meeting, 2004. IEEE
6-10 June 2004 Page(s):785 - 792 Vol.1
Digital Object Identifier 10.1109/PES.2004.1372924
AbstractPlus | Full Text: [PDF\(522 KB\)](#) IEEE CNF
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6. **Architecture for Providing Services in the Ubiquitous Computing Environ**
Kunito, G.; Sakamoto, K.; Yamada, N.; Takakashi, T.; Tanaka, S.;
Distributed Computing Systems Workshops, 2006. ICDCS Workshops 2006.2
International Conference on
04-07 July 2006 Page(s):60 - 60
Digital Object Identifier 10.1109/ICDCSW.2006.19
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1 Radio-layer security: Detecting identity-based attacks in wireless networks using signalprints

Daniel B. Faria, David R. Cheriton
September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**

Publisher: ACM PressFull text available: [pdf\(327.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless networks are vulnerable to many identity-based attacks in which a malicious device uses forged MAC addresses to masquerade as a specific client or to create multiple illegitimate identities. For example, several link-layer services in IEEE 802.11 networks have been shown to be vulnerable to such attacks even when 802.11i/1X and other security mechanisms are deployed. In this paper we show that a transmitting device can be robustly identified by its *signalprint*, a tuple of signal ...

Keywords: IEEE 802.11., denial-of-service attacks, location-based services, security, wireless LANs

2 Intrusion detection techniques for mobile wireless networks

Yongguang Zhang, Wenke Lee, Yi-An Huang
September 2003 **Wireless Networks**, Volume 9 Issue 5

Publisher: Kluwer Academic PublishersFull text available: [pdf\(164.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid proliferation of wireless networks and mobile computing applications has changed the landscape of network security. The traditional way of protecting networks with firewalls and encryption software is no longer sufficient and effective. We need to search for new architecture and mechanisms to protect the wireless networks and mobile computing application. In this paper, we examine the vulnerabilities of wireless networks and argue that we must include intrusion detection in the securit ...

Keywords: anomaly detection, cooperative detection, intrusion detection, intrusion response, mobile ad-hoc networks

3 Client-server computing in mobile environments

 Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(233.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

4 PACT 2001 workshops: A middleware component supporting flexible user interaction for networked home appliances 

 Tatsuo Nakajima
December 2001 **ACM SIGARCH Computer Architecture News**, Volume 29 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(768.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we describe a middleware component supporting flexible user interaction for networked home appliances, which is a simple mechanism to fill the gap between traditional user interface systems and advanced user interaction devices. Our system enables us to control appliances in a uniform way at any places, and the system allows us to select suitable input and output devices according to our preferences and situations. Our system has based on the stateless thin-client system, and tran ...

5 Location (here): WALRUS: wireless acoustic location with room-level resolution using ultrasound 

 Gaetano Borriello, Alan Liu, Tony Offer, Christopher Palistrant, Richard Sharp
June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  [pdf\(295.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we propose a system that uses the wireless networking and microphone interfaces of mobile devices to determine location to room-level accuracy. The wireless network provides a synchronizing pulse along with information about the room. This is accompanied by an ultrasound beacon that allows us to resolve locations to the confines of a physical room (since audio is mostly bounded by walls). We generate the wireless data and ultrasound pulses from the existing PCs in each room; a PDA ...

6 Security: Enhancing the security of corporate Wi-Fi networks using DAIR 

 Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Manpreet Singh, Alec Wolman, Brian Zill
June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available:  [pdf\(302.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a framework for monitoring enterprise wireless networks using desktop

infrastructure. The framework is called DAIR, which is short for *Dense Array of Inexpensive Radios*. We demonstrate that the DAIR framework is useful for detecting rogue wireless devices (e.g., access points) attached to corporate networks, as well as for detecting Denial of Service attacks on Wi-Fi networks. Prior proposals in this area include monitoring the network via a combination of access points (APs), m ...

Keywords: 802.11, denial-of-service, rogue AP, security, wireless networks

7 System support for pervasive applications

 Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.82 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

8 Papers from MC²R open call: An end-system approach to mobility management for 4G networks and its application to thin-client computing

 Leo Patanapongpibul, Glenford Mapp, Andy Hopper
July 2006 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 10 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.48 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes work centred around providing greater autonomy for mobile nodes to roam in Mobile IPv6 wireless networks based on a new handoff mechanism. This technique, called the Client-based Handoff, enables mobile nodes to roam in foreign wireless networks without having to be controlled by the network infrastructure. The mechanism incorporates three algorithms: a router advertisement cache, the invocation of TCP mechanisms and techniques to handle subnetwork outages in order to reduce ...

9 Pioneer: verifying code integrity and enforcing untampered code execution on legacy systems

 Arvind Seshadri, Mark Luk, Elaine Shi, Adrian Perrig, Leendert van Doorn, Pradeep Khosla
October 2005 **ACM SIGOPS Operating Systems Review, Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(264.30 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a primitive, called Pioneer, as a first step towards verifiable code execution on untrusted legacy hosts. Pioneer does not require any hardware support such as secure co-processors or CPU-architecture extensions. We implement Pioneer on an Intel Pentium IV Xeon processor. Pioneer can be used as a basic building block to build security

systems. We demonstrate this by building a kernel rootkit detector.

Keywords: dynamic root of trust, rootkit detection, self-check-summing code, software-based code attestation, verifiable code execution

10 A Location Model for Communicating and Processing of Context

Michael Beigl, Tobias Zimmer, Christian Decker

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6

Publisher: Springer-Verlag

Full text available:  [pdf\(312.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Location is one of the most important elements of context in ubiquitous computing. In this paper we describe a *location model*, a *spatial-aware communication model* and an *implementation* of the models that exploit location for processing and communicating context. The location model presented describes a location tree, which contains human-readable semantic and geometric information about an organisation and a structure to describe the current location of an object or a context ...

Keywords: Digital artefacts, Experiences, Guidelines, Location model, RAUM, Spatial-aware communication

11 Intrusion detection in wireless ad-hoc networks

 Yongguang Zhang, Wenke Lee

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available:  [pdf\(936.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As the recent denial-of-service attacks on several major Internet sites have shown us, no open computer network is immune from intrusions. The wireless ad-hoc network is particularly vulnerable due to its features of open medium, dynamic changing topology, cooperative algorithms, lack of centralized monitoring and management point, and lack of a clear line of defense. Many of the intrusion detection techniques developed on a fixed wired network are not applicable in this new environment. Ho ...

12 A software infrastructure for supporting spontaneous and personalized interaction in home computing environments

Tatsuo Nakajima, Ichiro Satoh

September 2006 **Personal and Ubiquitous Computing**, Volume 10 Issue 6

Publisher: Springer-Verlag

Full text available:  [pdf\(459.60 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Our daily lives are expected to change dramatically due to the popularity of ubiquitous computing technologies. These will make it possible to integrate various aspects of our lives. However, a new approach is required to seamlessly deal with devices embedded in our environments. Future embedded systems will embody a new approach that will take into account a variety of new issues, for example, spontaneous interaction, personalization, privacy protection, and interoperability. In this paper, we ...

Keywords: Appliance coordination, Home computing, Personal devices, Personalization, Spontaneous interaction

◆ Long papers: visualization and presentation: The centrality of pivotal points in the evolution of scientific networks

Chaomei Chen

January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces IUI '05**

Publisher: ACM Press

Full text available:  [pdf\(732.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe the development of CiteSpace as an integrated environment for identifying and tracking thematic trends in scientific literature. The goal is to simplify the process of finding not only highly cited clusters of scientific articles, but also pivotal points and trails that are likely to characterize fundamental transitions of a knowledge domain as a whole. The trails of an advancing research field are captured through a sequence of snapshots of its intellectual structure ...

Keywords: betweenness centrality, information visualization, intellectual turning points, knowledge domain visualization, research fronts

14 Visualizing geospatial data

◆ Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems • Operational: consistency of geospatial data • Functional: transparent communication between the GIS and Vis systems • Merged: one comprehensive toolkit environment ...

15 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed,

◆ Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [index terms](#)

16 Defensive techniques: Proactive security for mobile messaging networks

◆ Abhijit Bose, Kang G. Shin

September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**

Publisher: ACM Press

Full text available:  [pdf\(281.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The interoperability of IM (Instant Messaging) and SMS (Short Messaging Service) networks allows users to seamlessly use a variety of computing devices from desktops to cellular phones and mobile handhelds. However, this increasing convergence has also attracted the attention of malicious software writers. In the past few years, the number of malicious codes that target messaging networks, primarily IM and SMS, has been increasing exponentially. Large message volume and number of users in these ...

Keywords: Instant Messaging (IM), SMS/MMS, containment, mobile viruses, proactive

security, worms

17 Networked surfaces: a new concept in mobile networking

James Scott, Frank Hoffmann, Mike Addlesee, Glenford Mapp, Andy Hopper
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(405.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Networked Surfaces are surfaces which provide networking to specially augmented objects when these objects are physically placed on top of the surface. When an object (e.g., a notebook computer) connects, a handshaking protocol assigns functions such as data or power transmission to the various conducting paths that are established. This paper describes the position occupied by this concept in the world of networking, presents an overview of the technology used in its realisation, describes the ...

Keywords: mobile networking, sentient computing, ubiquitous computing

18 A trace-based evaluation of adaptive error correction for a wireless local area network

David A. Eckhardt, Peter Steenkiste
December 1999 **Mobile Networks and Applications**, Volume 4 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(243.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless transmissions are highly susceptible to noise and interference. As a result, the error characteristics of a wireless link may vary widely depending on environmental factors such as location of the communicating systems and activity of competing radiation sources, making error control a difficult task. In this paper we evaluate error control strategies for a wireless LAN. Based on low-level packet traces of WaveLAN, we first show that forward error correction (FEC) is effective in r ...

19 Detection: On scalable attack detection in the network

 Ramana Rao Komella, Sumeet Singh, George Varghese
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement IMC '04**

Publisher: ACM Press

Full text available:  [pdf\(405.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current intrusion detection and prevention systems seek to detect a wide class of network intrusions (e.g., DoS attacks, worms, port scans) at network vantage points. Unfortunately, all the IDS systems we know of keep per-connection or per-flow state. Thus it is hardly surprising that IDS systems (other than signature detection mechanisms) have not scaled to multi-gigabit speeds. By contrast, note that both router lookups and fair queuing have scaled to high speeds using <i>aggregation</i> ...

Keywords: denial of service, scalability, security

20 A self-configuring and self-administering name system with dynamic address assignment

 February 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(908.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article we present a distributed system that stores name-to-address bindings and provides name resolution to a network of computers. This name system consists of a network of name services that are individually self-configuring and self-administering. The name service consists of an agent program that works in conjunction with the current implementation of the Domain Name System (DNS) program. The DNS agent program automatically configures the Berkeley Internet Name Domain (BIND) process ...

Keywords: Berkeley Internet Name Domain, dynamic reconfiguration, name-to-name address binding, self-administering systems, self-configuring systems

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Jul 23, 2002

US-PAT-NO: 6424343

DOCUMENT-IDENTIFIER: US 6424343 B1

TITLE: Graphics system with programmable real-time sample filtering

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4. Document ID: US 6417861 B1

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File: USPT

Jul 9, 2002

US-PAT-NO: 6417861

DOCUMENT-IDENTIFIER: US 6417861 B1

TITLE: Graphics system with programmable sample positions

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